

Attorney's Docket No. K&A 23-0223
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APPLICATION

FOR UNITED STATES LETTERS PATENT

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, **DAVID RUTTER, SR.**, a citizen of UNITED STATES OF AMERICA, have invented a new and useful **EMERGENCY LIGHT SYSTEM** of which the following is a specification:

EMERGENCY LIGHT SYSTEM

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BACKGROUND OF THE INVENTION

Field of the Invention

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The present invention relates to emergency light fixtures and more particularly pertains to a new emergency light system for providing emergency lighting identification of a vehicle.

15 Description of the Prior Art

The use of emergency light fixtures is known in the prior art. U.S. Patent No. 5,446,629 describes a device for actuating a light stick to emit light during emergency situations. Another type of 20 emergency light fixture is U.S. Patent No. 4,814,949 and 5,043,851 each have a chemiluminescent device that uses a chemical compound for producing light.

While these devices fulfill their respective, particular 25 objectives and requirements, the need remains for a system that has certain improved features allowing for securing emergency lights to a vehicle in case of emergency.

30 SUMMARY OF THE INVENTION

The present invention meets the needs presented above by providing holder members that are coupled to vehicle that readily receive the light emitting members to visually indicate the location of the vehicle.

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Still yet another object of the present invention is to provide a new emergency light system that does not require electricity to allow the vehicle to be seen.

10 To this end, the present invention generally comprises a plurality of light emitting members being designed for being coupled to the vehicle whereby each of the light emitting members emits light to visually indicate the location of the vehicle. Each of a plurality of holder members selectively receives one of the light
15 emitting members. Each of the holder members is designed for being coupled to the vehicle whereby each of the holder members is for selectively securing the light emitting members to the vehicle.

20 There has thus been outlined, rather broadly, the more important features of the invention in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the invention that will be described hereinafter and which will form the subject matter
25 of the claims appended hereto.

30 The objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such 5 description makes reference to the annexed drawings wherein:

Figure 1 is an exploded perspective view of a new emergency light system according to the present invention.

10 Figure 2 is a perspective view of one of the light emitting members inserted into one of the holder members of the present invention.

15 Figure 3 is a cross-sectional view of the present invention taken along line 3-3 of Figure 2.

DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference now to the drawings, and in particular to 20 Figures 1 through 3 thereof, a new emergency light system embodying the principles and concepts of the present invention and generally designated by the reference numeral 10 will be described.

As best illustrated in Figures 1 through 3, the emergency light 25 system 10 generally comprises a plurality of light emitting members 11 being designed for being coupled to the vehicle whereby each of the light emitting members 11 emits light to visually indicate the location of the vehicle.

30 Each of a plurality of holder members 12 selectively receives one of the light emitting members 11. Each of the holder members 12 is designed for being coupled to the vehicle whereby each of the

holder members 12 is for selectively securing the light emitting members 11 to the vehicle.

5 Each of the light emitting members 11 comprises a perimeter wall 13. The perimeter wall 13 defines an interior space 14 of the associated one of the light emitting members 11.

10 Each of the light emitting members 11 comprises a light emitting means 15 for emitting visible light. The light emitting means 15 is positioned in the interior space 14 of the associated one of the light emitting members 11 whereby the light emitting means 15 is for emitting light through the perimeter wall 13 of the associated one of the light emitting members 11. The light emitting means 15 comprises a chemical compound. The chemical compound 15 is chemiluminescent when the chemical compound is mixed by the user.

20 Each of the holder members 12 comprises a sleeve portion 16. The sleeve portion 16 is for selectively receiving one of the light emitting members 11 whereby the sleeve portion 16 is for permitting light from the associated one of the light emitting members 11 to be viewed.

25 The sleeve portion 16 of each of the holder members 12 comprises a front wall 17, a pair of side walls 18 and a rear wall 19. The front wall 17, the side walls 18 and the rear wall 19 define a sleeve space 20 of the sleeve portion 16. The sleeve space 20 is for receiving one of the light emitting members 11.

The holder members 12 comprise a stern holder member 21. The front wall 17 of the sleeve portion 16 of the stern holder member 21 comprises a stern aperture 22 extending through the front wall 17 of the sleeve portion 16. The stern member is 5 designed for being coupled to a rear of the vehicle, such as a stern of a boat, whereby the stern aperture 22 is for permitting light from one of the light emitting members 11 to be viewed from behind the vehicle.

10 The holder members 12 comprise a bow holder member 23. The sleeve portion 16 of the bow holder member 23 comprises a bow aperture 24 whereby the bow aperture 24 extends through the front wall 17 and portion of each of the side walls 18 of the sleeve portion 16 of the bow holder member 23. The bow holder member 15 23 is designed for being coupled to a front of the vehicle, such as the bow of a boat, whereby the bow aperture 24 is for permitting light from one of the light emitting members 11 to be viewed from in front of the vehicle.

20 The holder members 12 comprise a pair of side holder members 25. The sleeve portion 16 of each of the side holder members 25 comprises a side aperture 26 whereby the side aperture 26 extends through the front wall 17 and a portion of one of the side walls 18 of the sleeve portion 16 of the associated one of the 25 side holder members 25. Each of the side holder members 25 is designed for being coupled to one of a pair of sides of the vehicle, such as the starboard and port sides of a boat, whereby the side aperture 26 is for permitting light from one of the light emitting members 11 to be viewed from the side of the vehicle.

Each of the holder members 12 comprises a pair of end portions 27. Each of the end portions 27 is coupled to the sleeve portion 16 of the associated one of the holder members 12 whereby one of the end portions 27 is positioned opposite the other one of 5 the end portions 27. Each of the end portions 27 comprises a bore 28 whereby the bore 28 of each of the end portions 27 is in communication with the sleeve portion 16 of the associated one of the holder members 12. The bore 28 of each of the end portions 27 is for maintaining alignment of one of the light emitting members 11 when one of the light emitting members 11 is inserted to the 10 sleeve portion 16 of the associated one of the holder members 12.

The bore 28 of each of the end portions 27 comprises a first portion 29 and a second portion 30. The first portion 29 comprises 15 a diameter greater than a diameter of the second portion 30 whereby a lip 31 is formed between the first portion 29 and the second portion 30. The lip 31 is for engaging a raised portion of one of the light emitting members 11 to inhibit the associated one of the light emitting members 11 from passing completely through the 20 associated one of the holder members 12.

Each of the holder members 12 comprises a mounting portion 32. The mounting portion 32 is designed for selectively securing the associated one of the holder members 12 to the vehicle.

25 In an embodiment, the mounting portion 32 of each of the holder members 12 comprises an adhesive material 33. The adhesive material 33 is designed for selectively securing the associated one of the holder members 12 to the vehicle.

In an embodiment, the mounting portion 32 of the each of the holder members 12 comprises a plurality of fastener apertures 34. Each of the fastener apertures 34 extending thought the associated one of the holder members 12. Each of the fastener apertures 34 is 5 designed for receiving a fastener whereby the associated one of the holder members 12 can be selectively secured to the vehicle.

In use, the user mounts the stern holder member 21 to the stern of the vehicle. The bow holder member 23 is coupled to the 10 bow of the vehicle. The side holder members 25 are coupled to the starboard and port sides of the vehicle. The light emitting members 11 are actuated to allow the chemical compound to mix and to emit light through chemiluminescence. The light emitting members 11 are then inserted into the holder members 12 to allow the vehicle to 15 be viewed. To conform to boating illumination standards one of the light emitting members 11 would emit a green light and be inserted into the one of the side holder members 25 on the starboard side of the vehicle. One of the light emitting members 11 would emit a red light and being inserted into the one of the side holder members 25 20 on the port side of the vehicle. Light emitting members emitting a white light would be inserted into the stern holder member 21 and the bow holder member 23.

With respect to the above description then, it is to be realized 25 that the optimum dimensional relationships for the parts of the invention, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and 30 described in the specification are intended to be encompassed by the present invention.

Therefore, the foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the 5 art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.